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1. A method of calibrating video, comprising:  
calibrating at least one of pixel offset and pixel gain of a video signal  
via digital hardware.
2. The method according to claim 1, further including calibrating for  
pixel offset by setting a range for pixel offset calibration, adjusting an uncalibrated  
video signal to be within the range, and providing an offset level setpoint.
3. The method according to claim 2, further including calibrating for  
pixel offset by subtracting a current state of offset of a video signal from the offset  
level setpoint to provide an error value.
4. The method according to claim 3, further including calibrating for  
pixel offset by applying a variable gain factor to the error value to provide a variable  
gain/error value.
5. The method according to claim 4, wherein the variable gain factor is  
fixed for different trip points.
6. The method according to claim 4, further including calibrating for  
pixel offset by adding the variable gain/error value to a pixel offset value stored in a  
storage device to provide a specified pixel offset value.
7. The method according to claim 6, further including calibrating for  
pixel offset by dividing the specified pixel offset value by 16.
8. The method according to claim 7, further including calibrating for  
pixel offset by adding the divided value to the video signal adjusted to be within the  
range.
9. The method according to claim 1, further including calibrating for  
pixel gain by setting a range for pixel gain calibration, adjusting an uncalibrated video  
signal to be within the range, and providing for continuing compensation of changes  
in video intensity.
10. The method according to claim 9, further including calibrating for  
pixel gain by covering a video channel with an automatic gain control tab.
11. The method according to claim 10, further including calibrating for  
pixel gain by subtracting a current state of gain of a video signal from an automatic  
gain control tab setpoint to provide an error value.

12. The method according to claim 11, further including calibrating for pixel gain by inputting the error value into an integrator to apply the error value to a video signal over a period of time.

13. The method according to claim 12, further including calibrating for pixel gain by multiplying a video signal output from the integrator with a video signal inputted to the video channel covered with the automatic gain control tab.

14. The method according to claim 13, further including calibrating for pixel gain by multiplying the video signal output from the integrator with a video signal inputted to a video channel other than the video channel covered with the automatic gain control tab.

15. The method according to claim 14, further including calibrating for pixel gain by subtracting a current state of gain of a video signal from a white level setpoint to provide an error value.

16. The method according to claim 15, further including calibrating for pixel gain by applying a variable gain factor to the error value to provide a variable gain/error value.

17. The method according to claim 16, wherein the variable gain factor is fixed for different trip points.

18. The method according to claim 16, further including calibrating for pixel gain by adding the variable gain/error value to a pixel gain value stored in a storage device, to provide a specified pixel gain value.

19. The method according to claim 18, further including calibrating for pixel gain by dividing the specified pixel gain value by 16.

20. The method according to claim 19, further including calibrating for pixel gain by multiplying the divided value to the video signal adjusted to be within the range.

21. An image sensor for use with a document scanner, comprising:  
digital hardware that calibrates at least one of pixel offset and pixel gain of a video signal.

22. The image sensor according to claim 21, further including a device that calibrates for pixel offset by setting a range for pixel offset calibration, adjusting an uncalibrated video signal to be within the range, and providing an offset level setpoint.

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23. The sensor according to claim 21, further including a device that calibrates for pixel gain by setting a range for pixel gain calibration, adjusting an uncalibrated video signal to be within the range, and providing for continuing compensation of changes in video intensity.

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